

## WEST Search History

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DATE: Tuesday, April 06, 2004

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<i>DB=USPT,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=OR</i>			
<input type="checkbox"/>	L8	(plug\$4 near3 (safe\$2 or unsafe\$2)) same (notif\$9 near2 (user or operator))	2
<input type="checkbox"/>	L7	l4 same (notif\$9 near2 (user or operator))	24
<input type="checkbox"/>	L6	l1 same L4	0
<input type="checkbox"/>	L5	l1 and L4	42
<input type="checkbox"/>	L4	(plug\$4 or unplug\$4 or coupl\$4 or uncoupl\$4 or decoupl\$4 or (hot adj plug\$4)) with (safe or unsafe or appropriate or proper)	74385
<input type="checkbox"/>	L3	L1 same ((safe or unsafe or appropriate or proper) near3 (connect\$4 or disconnect\$4))	4
<input type="checkbox"/>	L2	L1 same (real adj time)	22
<input type="checkbox"/>	L1	(notif\$9 near3 (user or operator)) same (configur\$9 or reconfigur\$9) same (display\$4 or monitor)	381

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L7: Entry 2 of 24

File: USPT

Jan 6, 2004

DOCUMENT-IDENTIFIER: US 6675066 B2

TITLE: Conveyor line process control system and method

Detailed Description Text (9):

Controller 14 also determines the appropriate time for the operator (or automatic loading equipment) to load units 38 onto hangars 36. In the case of manual loading, indicator 17 at first station 16 is activated to notify the operator that a unit 38 is to be loaded onto a hangar 26 at conveyor section 40. Similarly, indicator 19 at second station 18 is activated to notify the operator that a unit 38 is to be loaded onto a hangar 36 at conveyor section 42. In one embodiment, indicators 17, 19 are lights which are activated to indicate when loading may commence. Of course, indicators 17, 19 can be realized by other means, such as an audible signal, a software screen, or an electromechanical device that prevents loading a hangar 36. Indicators 17, 19 are not needed if an automated loading system is incorporated into conveyor system 10. In such an embodiment, controller 14 is coupled to the automated loading system and activates the automated loading system at the appropriate time to load unit 38 onto hangar 36.

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L7: Entry 6 of 24

File: USPT

Jun 10, 2003

DOCUMENT-IDENTIFIER: US 6578099 B1

TITLE: Method and computer system for safely hot-plugging adapter cards

Detailed Description Text (13):

At step 90 the hot-plug controller 64 terminates power to the appropriate card slot 40. Optionally, at step 92, the hot-plug controller 64 may vary a slot-status indicator 62 to signal that power is terminated to the card slot 40. The command to control the change status indicator may be included with additional commands sent to the card slot 40 from the hot-plug controller 64 to set status of the same. The hot-plug service may report to the user that power to the appropriate card slot 40 is terminated using, in addition to the change status indicator, the user interface 48, at step 94. Additional information, however, may be reported to the user via the user interface 48 indicating faults. Examples of the aforementioned faults include a fault due to wrong power frequency, a fault due to insufficient available power, a fault due to insufficient configuration resources, a power failure fault, and a general failure fault. Finally, assuming that the user is notified at step 94 that power has been terminated, the user removes the adapter card 38 from the card slot 40 at step 96. In this manner, the aforementioned card slot 40 has undergone a state change from connected, i.e., having an adapter card 38 present therein to unconnected, i.e., having no adapter card 38 present.

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L7: Entry 7 of 24

File: USPT

Mar 11, 2003

DOCUMENT-IDENTIFIER: US 6532558 B1

TITLE: Manufacturing testing of hot-plug circuits on a computer backplane

Detailed Description Text (8):

During normal operation, when a user determines that one or more adapter cards 50 must be removed or replaced from slots 46 that are powered up, the following sequence of steps are typically performed. First, user 30 notifies hot-plug service 28 of the desire to remove adapter card 50 from slot 46. Examples of notification methods include issuing a console command or activating a switch designed for this purpose. Next, hot-plug service 28 uses operating system functions to quiesce the appropriate adapter drivers 40, and adapter cards 50. Hot-plug service 28 then issues a hot-plug primitive 36 to hot-plug system driver 32 to turn off the appropriate slot 46. In response, hot-plug system driver 32 uses hot-plug controller 38 to: 1) assert a reset line to slot 46, and isolate slot 46 from the rest of bus 48; 2) power down slot 46; and 3) change attention indicator 51 to show slot 46 is off. Hot-plug service 28 then reports to user 30 that slot 46 is off. Finally, user 30 removes adapter card 50 from slot 46.

Detailed Description Text (9):

In a similar manner, the following general sequence of steps is necessary to insert adapter card 50 into slot 46 after the slot has been powered down and readied for insertion. First, user 30 inserts the new adapter card 50 into an appropriate slot 46. Next, user 30 notifies hot-plug service 28 to turn on the slot containing the new adapter card 50. Hot-plug service issues a hot-plug primitive 36 to hot-plug system driver 32 to turn on the appropriate slot 46. Hot plug system driver 32 instructs hot-plug controller 38 to: 1) power up slot 46; 2) de-assert the reset line on slot 46 and connect slot 46 to the rest of the bus; and 3) change attention indicator 51 to show slot 46 is on. Next, hot-plug service 28 notifies operating system 26 that new adapter card 50 is installed, so that operating system 26 initializes the new adapter card 50 and prepares adapter card 50 for use. Finally, hot-plug service 28 notifies user 30 that the new adapter card 50 is ready for use.

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L7: Entry 10 of 24

File: USPT

Mar 19, 2002

DOCUMENT-IDENTIFIER: US 6357887 B1  
TITLE: Housing for a computing device

Detailed Description Text (17):

The illumination of the illumination area 320 can signal a computer operator (or user) whether or not a proper connection is made with the illuminable connector 320. More particularly, when an operative connection is made between the socket (or plug) of the illuminable connector 320 and an external plug (or socket), light is transmitted by the light source, thereby illuminating the illumination area 320 external to the computer housing such that the computer operator is visually notified that a proper connection was made. Here, the light source 322 is activated once the circuitry within the portable computer 200 determines that an external plug (or socket) has been properly connected.

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L7: Entry 11 of 24

File: USPT

Sep 4, 2001

DOCUMENT-IDENTIFIER: US 6286066 B1

TITLE: Hot-plug interface for detecting adapter card insertion and removal

Detailed Description Text (27):

Referring to FIG. 5 in conjunction with FIG. 3, a schematic flow chart shows a general sequence of operations 500 for terminating power to an adapter card slot and isolating the bus prior to insertion of an adapter card. The process of preparing an adapter card slot for insertion of an adapter card varies from platform to platform and among operating systems. In an operation 510, a user inserts an adapter card into a corresponding adapter card slot. The user in operation 512 then latches the electrically-conductive flip-own retainer, setting the retainer switch to indicate the presence of an adapter card secured to the adapter card slot. In operation 514, setting of the retainer switch notifies the hot-plug service 324 to set power to the adapter card slot into which the adapter card is inserted. The hot-plug service 324 in operation 516 issues a hot-plug primitive 330 to the hot-plug system driver 332 requesting the driver to apply power to the appropriate adapter card slot. In operation 518, the hot-plug system driver 332 uses the hot-plug controller 322 to power the adapter card slot. The hot-plug controller 322 deasserts the reset signal RST# on the adapter card slot and connects the adapter card slot to the remainder of the bus in operation 520. The operations of deasserting the RST# signal and connecting the adapter card slot to the bus may occur in any order. In operation 522, the hot-plug controller 322 modifies the slot-state indicator signal to show that the adapter card slot is powered. The adapter driver verifies that the adapter card has completed internal initialization before the driver uses the adapter card. The adapter driver may become active sooner after a hot-insertion than after power is initially applied to the system. In operation 524, the hot-plug service 324 notifies the operating system that the new adapter card is installed so that the operating system can initialize the adapter and prepare for adapter use. In operation 526, the hot-plug service 324 notifies the user that the adapter card is ready for use.

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L7: Entry 12 of 24

File: USPT

Mar 7, 2000

DOCUMENT-IDENTIFIER: US 6035355 A

TITLE: PCI system and adapter requirements following reset

Detailed Description Text (5):

An adapter placed in one of the slots 112, 114 and 116 can be initialized with the operating system of computer system 100 without requiring rebooting of the entire system. A slot is powered down and isolated from PCI bus 110 prior to inserting an adapter card, using hot-plug controller 124. After inserting the card, the user notifies the hot-plug service, which turns on the slot containing the new adapter, by issuing a primitive to the hot-plug system driver. The hot-plug system driver then uses hot-plug controller 124 to power up the slot, connect the slot to PCI bus 110 using the appropriate hot-plug switch (slot-specific reset pins are independently controlled), and deassert the reset signal (RST#) on the slot. The hot-plug service thereafter notifies the operating system that the new adapter card is installed, so the operating system can initialize the adapter and prepare to use it (the user may also be notified that the card is ready with a message on the display monitor).